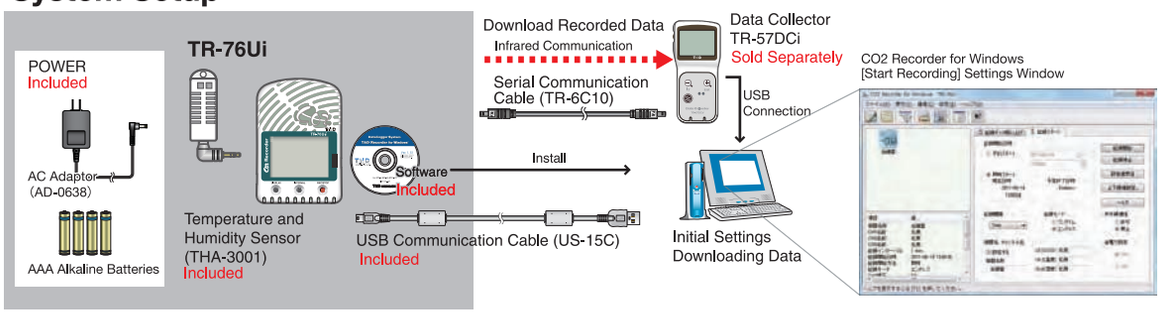
System Setup



Specifications

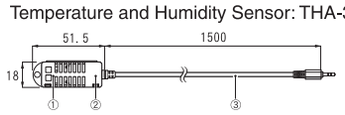
Device Type	TR-76Ui		
Measurement Channels	CO2 Concentration (1 Ch)	Temperature (1 Ch)	Humidity (1 Ch)
Unit of Measurement	ppm	℃	%RH
Sensor	NDIR Sensor (Internal)	External Sensor (THA-3001)	
Measurement Range	0 to 5,000 ppm (display range is up to 9,999 ppm)	0 to 45℃	10 to 90%RH
Measurement Accuracy	± 50ppm + 5% of reading *1 (at 5,000 ppm or less)	± 0.5℃	±5%RH (at 25℃ and 50%RH)
Measurement Resolution	Minimum of 1ppm	0.1℃	1%RH
Response Time (90%)	15 min.	7 min.	
Recording Intervals	1, 2, 5, 10, 15, 20, 30 sec./ 1, 2, 5, 10, 15, 20, 30, 60 min. (Total of 15 choices)		
Logging Capacity	8,000 data sets (One data set consists of readings for all three channels in TR-76Ui)		
Recording Modes	Endless / One Time		
LCD Display Items	Recording Status, Amount of Recorded Data, Communication Status, Recording Mode, Battery Level, Measurements, Unit of Measurement		
Communication Interfaces	USB / Serial (RS-232C) / Infrared Communication*2		
Communication Time	When downloading one unit at full logging capacity (8,000 data sets) USB Communication: Approx. 45 sec. / Infrared Communication: Approx. 60 to 80 sec.		
Infrared Communication	IrPHY 1.2 low power		
Power	AC Adaptor (AD-0638), AA Alkaline Battery (LR6) × 4		
Battery Life *3	Approx. 2 days without AC Power		
External Alarm Terminals	Output Terminal: Open Drain Output (Voltage when OFF: DC less than 30V / Current when ON: less than 0.1A / Resistance when ON: about 15Ω)		
Dimensions / Weight	H96 x W66 x D46 mm (excluding protrusions and sensor) / Approx. 220g (including 4 batteries and sensor)		
Operating Environment	Temperature: 0 to 45℃ / Humidity: 90%RH or less (no condensation)		
Accessories	Temperature and Humidity Sensor (THA-3001), AC Adaptor (AD-0638), AA Alkaline Battery (LR6) x 4 USB Communication Cable (US-15C) x 1, Software (CD-ROM), Manual Set (Warranty Included)x 1		
Compatible OS with Software*4	Microsoft® Windows® 7 32 / 64bit English , Microsoft® Windows Vista® 32bit English, Microsoft® Windows® XP 32bit (SP2 or higher) English		

*1: Stated value is the measurement accuracy of the CO2 sensor when Auto Calibration is operating properly. A change in atmospheric pressure directly influences the reading of CO2, which can cause measurement errors; a decrease in pressure by 10hPa results in a relative decrease in CO2 by 1.6%. In such a case, we recommend carrying out the "Atmospheric Pressure Correction" function found in CO2 Recorder for Windows.
*2: If you wish to use infrared communication to download recorded data, it is necessary to purchase the separately sold Data Collector (TR-57DCi).
*3: Battery life varies depending upon the measuring environment, frequency of communication, type of battery, and the battery performance.
*4: For installation, it is necessary to have Administrator (Computer Administrator) rights.

Optional Sensor

Unit : mm

Temperature and Humidity Sensor: THA-3151

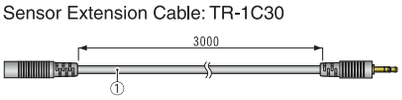


Materials:
① Temperature and Humidity Sensor
② Polypropylene Resin
③ Vinyl Chloride Coated Electrical Wire

Cable Length: 1.5 meters
Sensor Response Time: (90%) in about 7 min.
Humidity Measurement Range: 10 to 95%RH
Temperature Measurement Range: 0 to 55℃
Operating Environment
Temperature: 0 to 55℃
Humidity: under 95%RH (no condensation)

Measurement Accuracy
Temperature: Avg.± 0.3℃
Humidity: ±5%RH (at 25℃ and 50%RH)
Conditions for Use: In places with no dew condensation, water leakage or effects from corrosive gas or organic solvents.

Sensor Extension Cable: TR-1C30



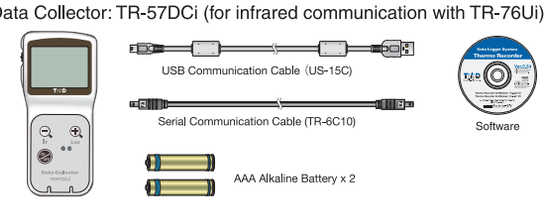
Cable Length: 3 meters
Temperature Durability: -25 to 60℃

Materials:
①Vinyl Chloride Coated Electrical Wire

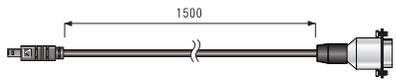
*Possible to use up to three extension cables per sensor (THA-3001/THA-3151)

Options

Data Collector: TR-57DCi (for infrared communication with TR-76Ui)



Serial Communication Cable: TR-07C (for serial communication with PC)



Cable Length: 1.5 meters
Connector Type: Specialized Connector D-sub9pin

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